

測試報告 Test Report

號碼(No.) : HY/2020/40027

日期(Date) : 2020/04/22

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東周化學工業股份有限公司

TONGJOU CHEMICAL INDUSTRIAL CO., LTD.

江蘇省昆山市青陽北路532號/廣東省中山市港口鎮穗安第二工業區福田六路5號/台灣省新北市三峽區添福里59-3號

NO. 532 QINGYANG BEI ROAD, KUNSHAN CITY, JIANG SU PROVINCE/

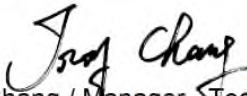
NO. 5 FUTIAN SIXTH ROAD, SECOND. INDUSTRY ZONE SUIAN VILLAGE, GANKOU, ZHONGSHAN CITY, GUANGDONG PROVINCE/

NO. 59-3, TEIN FU LI, SAN SHAI DIST., NEW TAIPEI CITY, TAIWAN.

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as) :

送樣廠商(Sample Submitted By) : 東周化學工業股份有限公司 (TONG JOU CHEMICAL INDUSTRIAL CO., LTD.)
樣品名稱(Sample Description) : UV INK / UV墨水 / LED UV墨水 (YMCKW混測)
樣品型號(Style/Item No.) : PMX-SERIES, UVC-SERIES, UV-SERIES, LED UV-SERIES , UVI-SERIES
收件日期(Sample Receiving Date) : 2020/04/14
測試期間(Testing Period) : 2020/04/14 TO 2020/04/22

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測試方法及結果 : 請參閱下一頁 (Please refer to following pages).
(Test Method & Results)


Troy Chang / Manager - Tec
Signed for and behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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測試結果(Test Results)

指令 2009/48/EC 及其理事會修正指令 (EU) 2017/738, 委員會指令 (EU) 2018/725 - EN71-3 : 2019 - 特定元素遷移. /
Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725
- EN71-3 : 2019 - Migration of certain elements.

第三類：可刮取的玩具材料. / Category III: Scraped-off toy material.

測試部位(PART NAME) No.1 : 黑色油墨 (客戶自行調配之樣品) (BLACK PAINT (SAMPLE IS BLENDED BY CLIENT))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	RL	結果 (Result)	限值 (Limit)
				No. 1	
溶出鋁 / Soluble Aluminum (Al)	mg/kg	參考 EN 71-3 : 2019, 以感應耦合電漿放射光譜儀檢測. / With reference to EN 71-3 : 2019. Analysis was performed by ICP-OES.	50	n. d.	70000
溶出銻 / Soluble Antimony (Sb)	mg/kg		10	n. d.	560
溶出砷 / Soluble Arsenic (As)	mg/kg		10	n. d.	47
溶出鋇 / Soluble Barium (Ba)	mg/kg		50	n. d.	18750
溶出硼 / Soluble Boron (B)	mg/kg		50	n. d.	15000
溶出鎘 / Soluble Cadmium (Cd)	mg/kg		5	n. d.	17
溶出鈷 / Soluble Cobalt (Co)	mg/kg		10	n. d.	130
溶出銅 / Soluble Copper (Cu)	mg/kg		50	n. d.	7700
溶出鉛 / Soluble Lead (Pb)	mg/kg		10	n. d.	23
溶出錳 / Soluble Manganese (Mn)	mg/kg		50	n. d.	15000
溶出汞 / Soluble Mercury (Hg)	mg/kg		10	n. d.	94
溶出鎳 / Soluble Nickel (Ni)	mg/kg		10	n. d.	930
溶出硒 / Soluble Selenium (Se)	mg/kg		10	n. d.	460
溶出銦 / Soluble Strontium (Sr)	mg/kg		50	n. d.	56000
溶出錫 / Soluble Tin (Sn)	mg/kg		4.9	n. d.	180000
溶出鋅 / Soluble Zinc (Zn)	mg/kg		50	n. d.	46000
溶出鉻 / Soluble Chromium (Cr)	mg/kg	5	n. d.	-	

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	RL	結果 (Result)	限值 (Limit)
				No. 1	
溶出三價鉻 / Soluble Chromium (III) (Cr (III))	mg/kg	參考 EN 71-3 : 2019, 溶出三價鉻由計算求得 / With reference to EN 71-3 : 2019. Soluble Chromium (III) was obtained by calculation.	5	n. d.	460
溶出六價鉻 / Soluble Chromium (VI) (Cr (VI))	mg/kg	參考 EN 71-3 : 2019, 以液相層析感應耦合電漿質譜儀檢測。 / With reference to EN 71-3 : 2019. Analysis was performed by LC-ICP-MS.	0.02	0.0228	0.053
甲基錫 / Methyl Tin (MeT)	mg/kg	參考 EN 71-3 : 2019, 以氣相層析質譜儀檢測。 / With reference to EN 71-3 : 2019. Analysis was performed by GC/MS.	1.8	n. d.	-
二丙基錫 / Di-n-propyl Tin (DProT)	mg/kg		1.8	n. d.	-
單丁基錫 / Butyl Tin (BuT)	mg/kg		1.8	n. d.	-
二丁基錫 / Dibutyl Tin (DBT)	mg/kg		1.8	3.16	-
三丁基錫 / Tributyl Tin (TBT)	mg/kg		1.8	n. d.	-
單辛基錫 / n-Octyl Tin (MOT)	mg/kg		1.8	n. d.	-
四丁基錫 / Tetrabutyl Tin (TeBT)	mg/kg		1.8	n. d.	-
二苯基錫 / Diphenyl Tin (DphT)	mg/kg		1.8	n. d.	-
二辛基錫 / Di-n-octyl Tin (DOT)	mg/kg		1.8	n. d.	-
三苯基錫 / Triphenyl Tin (TphT)	mg/kg		1.8	n. d.	-
二甲基錫 / Dimethyl Tin (DMT)	mg/kg		1.8	n. d.	-
溶出有機錫 / Soluble Organic Tin	mg/kg		-	3.16	12

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. RL = Reporting Limit (報告極限值)
3. n.d. = Not Detected = below RL (未檢出 / 低於RL)
4. "-" = Not Regulated
5. 樣品在乾燥至恆定重量後測試。
(The sample(s) was/were tested after drying to consistent weight.)
6. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。
(The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value.)
7. 本報告不得分離，分離使用無效。
(The content of this report is invalid if it is not presented as the entire report.)

* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

HY/2020/40027



** 報告結尾(End of Report) **

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